

ADD R(a) + 5 → R(d)

Figure 1

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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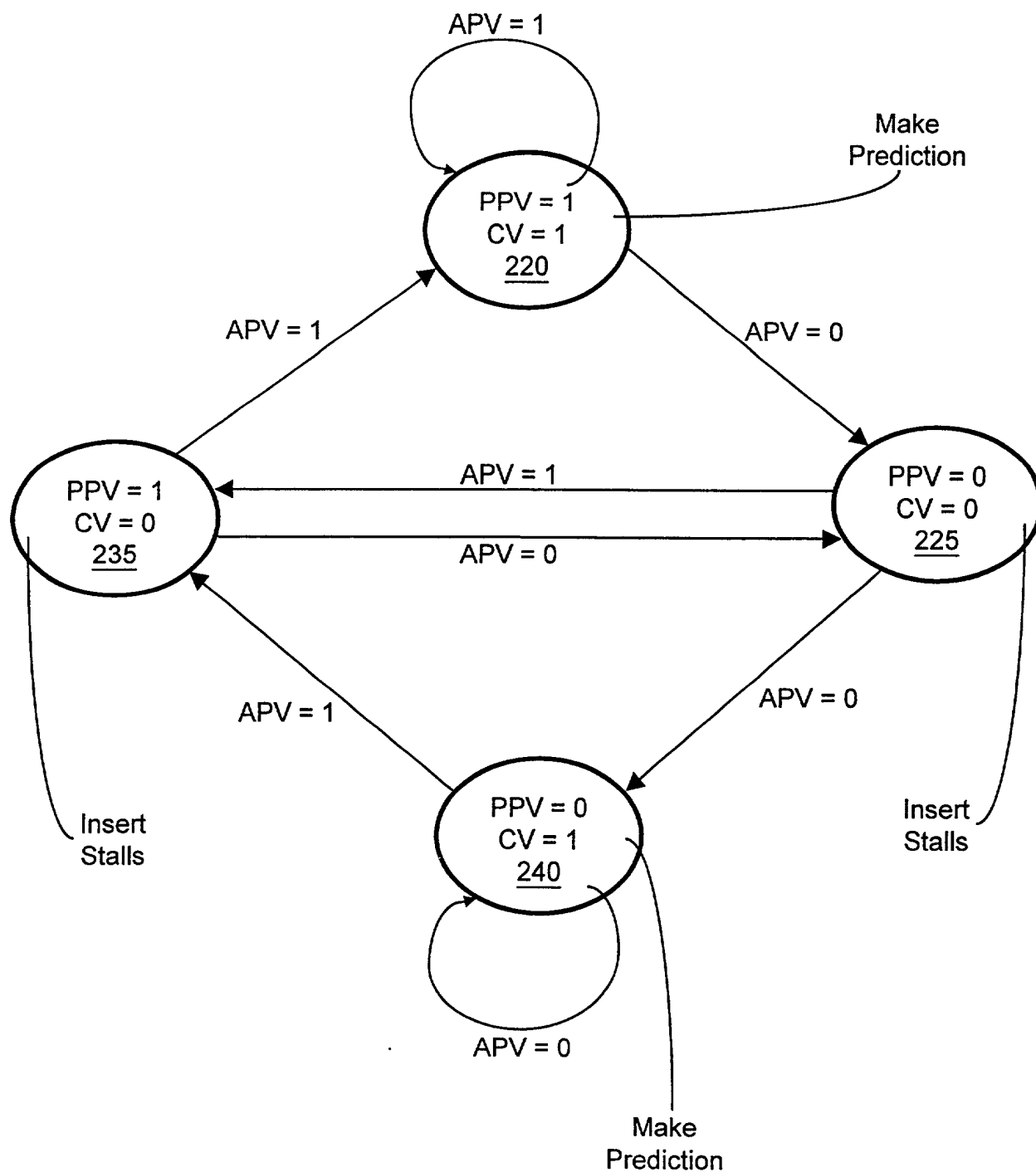


Figure 2

2024-04-24 14:44:00

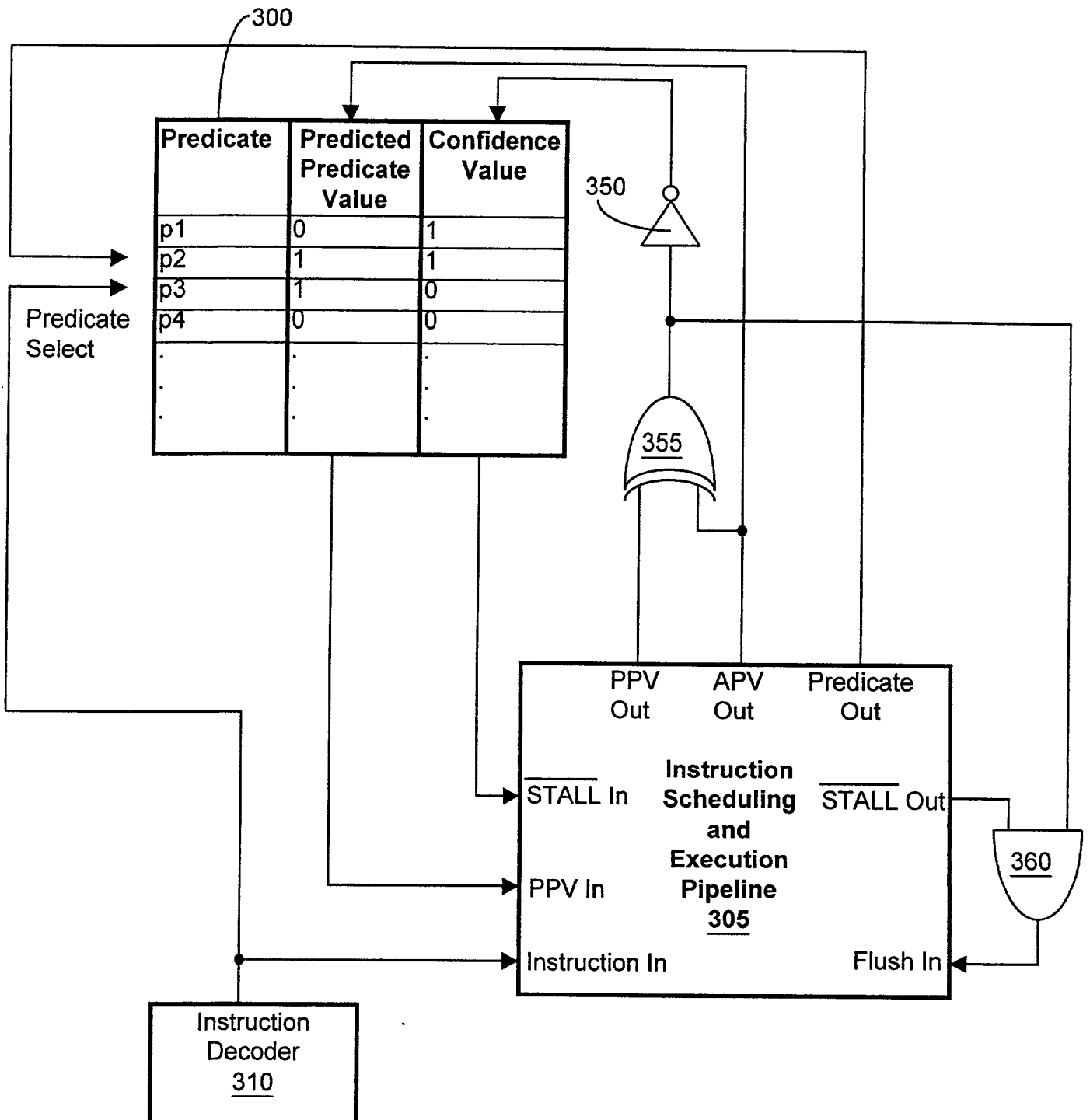


Figure 3A

00000000000000000000000000000000

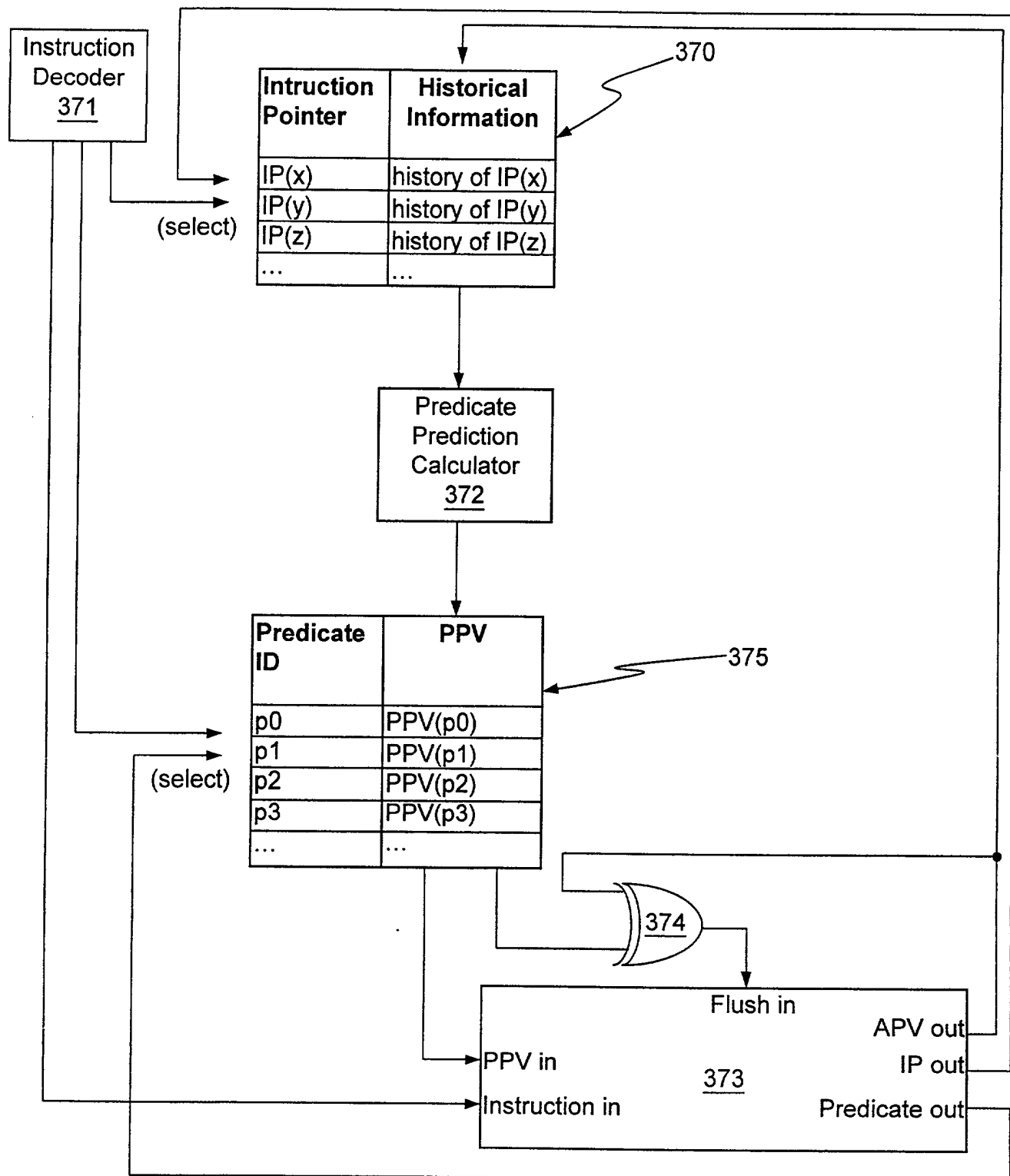


Figure 3B

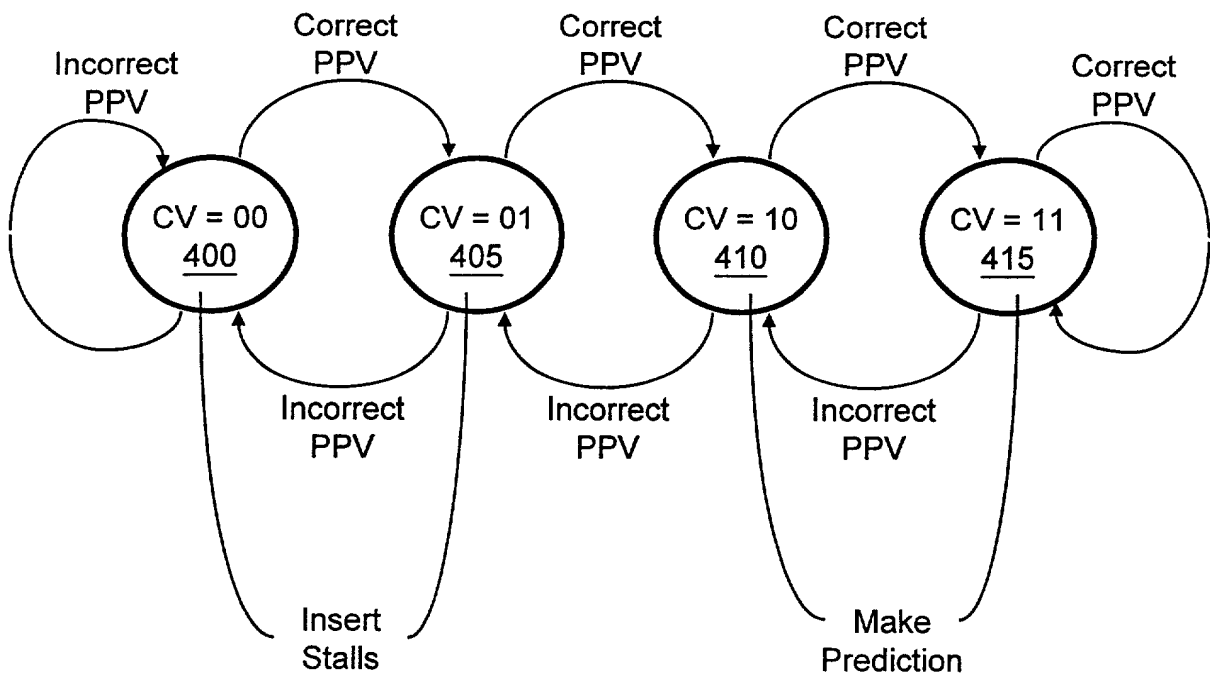


Figure 4

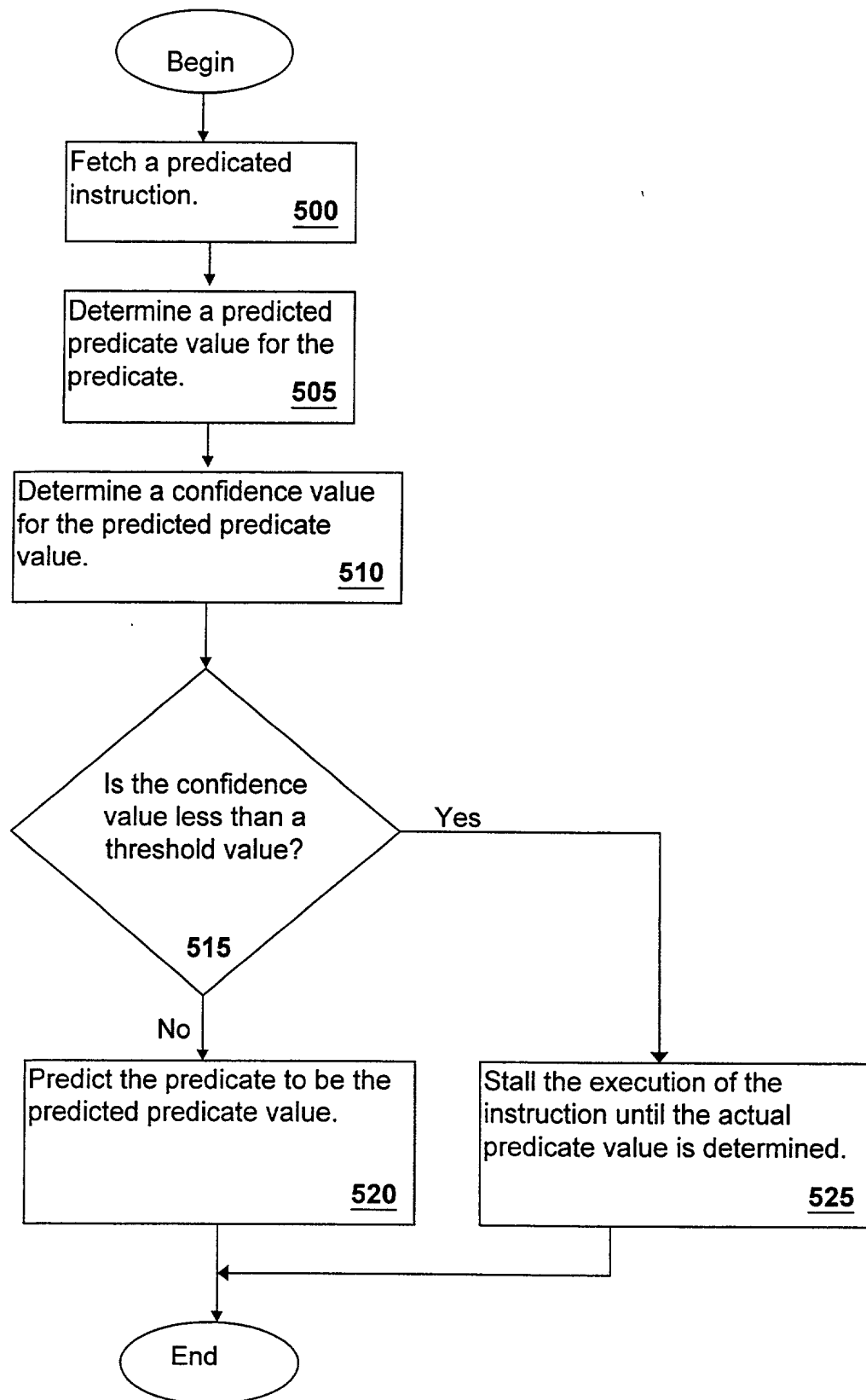


Figure 5

```

graph TD
    Begin([Begin]) --> 600[Fetch a predicated instruction.  
600]
    600 --> 605{What is the PPV?  
605}
    605 -- True --> 610[Execute the predicated instruction.  
610]
    605 -- False --> 615[Treat the predicated instruction like a no-op.  
615]
    610 --> 615
    615 --> 620{Is PPV=APV?  
620}
    620 -- Yes --> End([End])
    620 -- No --> 625[Flush at least the backend of the pipeline, and replay beginning with the predicated instruction using the APV.  
625]
    625 --> 620
  
```

Figure 6